



EVERFOCUS

1/3" CCD IR Camera Operation Instructions

Model No. **ED230/330**

Please read this manual first for correct installation and operation. This manual should be retained for future reference. The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

PRECAUTIONS

1. Do not have camera immersed in water.
2. Do not disassemble it or place it on an unstable base.
3. Do not touch the surface of CCD sensor by hand directly.
4. Never face the camera toward the sun.
5. Use proper power source otherwise the camera will not function correctly.
6. Use the camera at temperatures within -10°C ~ 50°C and humidity between 20% ~ 80%. The input power source is DC 12V.

PREFACE

The ED230/330 Series Camera are compact, full functioned CCD IR Camera. Their stylish appearance can be applied as per installer's ideal locations. These dome cameras can be mounted either on the ceiling or on the wall easily. ED230/330 uses high sensitive 1/3" color interline transfer CCD sensor, built in long life, high light & high reliability LED, sensors are featured with Auto Electronic Shutter, Automatic Gain Control, and Auto White Balance function.

FEATURES

- LED lifespan of 20,000 hours
- Easy installation
- Auto Electronic Shutter function
- Automatic Gain Control function
- Auto White Balance function
- 0 lux (IR ON)
- Special optical low pass filter (inside) for high IR response
- Automatically switches to black and white image when light levels fall below 1 lux
- IR view angle: 75° range
- IR distance: 10-15 M/ 33-49 feet
- Available in 4.3mm with black base and shell or white base and shell

PACKAGE CONTENTS

- Camera Unit x 1
- Manual x 1

OPTIONAL ACCESSORIES

- **BA-ED**- Mounting L-Bracket for ED Series Mini Dome Cameras



ED230/330

Type	ED230	ED330
Pickup Device	1/3"SONY Super HAD CCD	
Video Format	NTSC or PAL	
Scanning System	NTSC: 525 TV lines, 60 fields/sec PAL: 625 TV lines, 50 fields/sec.	
Picture Elements	510 x 492 (NTSC) 500 x 582 (PAL)	768 x 494 (NTSC) 752 x 582 (PAL)
Horizontal Resolution	380 TV Lines	480 TV Lines
Video Output	BNC 1.0Vp-p, 75 ohm	
*Lens	4.3mm,6.0mm,8.0mm	
	*Lens models and availability vary in different regions	
Sensitivity	0.3 Lux/F=1.2 (AGC ON) 0 Lux (IR LED on)	0.4 Lux/F=1.2 (AGC ON) 0 Lux (IR LED on)
Gamma Correction	0.45	
S/N Ratio	Over 48dB (AGC off)	
Auto White Balance	Yes	
Electronic Shutter	1/50 (1/60) ~ 1/100000s	
Black Light Comp.	Yes	
Auto Gain Control	Yes	
Sync. Mode	Internal Sync.	
Power Source	12VDC	
Power Consumption	12VDC: 4W max.	
Dimensions	108 mm (O.D.) x 80 mm (H) ; 4.3" (O.D) x 3.2" (H)	
Weight	0.23 kg ; 0.5 lbs	
Operating Temperature	-10°C~50°C ; 14°F~122°F (20%~80% Humidity)	
IR Distance	10-15 M/ 33-49 feet	
IR Wavelength	850nm	
Certifications	FCC/CE	

INSTALLATION

This section cover simple steps and detail installation. Please follow instruction for preventing any unnecessary damage.

Simple Steps:

1. Open Camera Cover
2. Mount Camera on Ceiling or Wall
3. Connect power, video

Detail installation:

1. Open Camera Cover

Turn Clockwise to open it gently. Be careful not to damage the lens.



2. Mount the camera on ceiling or wall. Refer dimension b for drilling dimension.



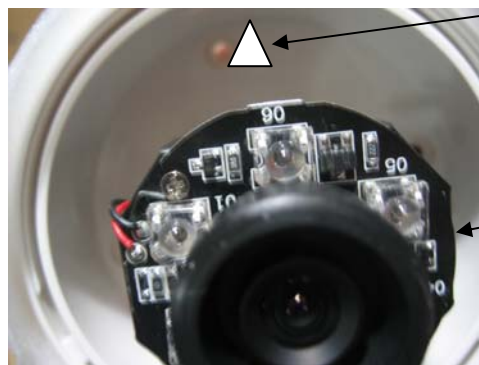
a) Ceiling mount

The dome camera is set in ceiling mount position as default.



b) Wall mount

The arrow indicator should be on the top when you do wall mounting. Unscrew the fixing screws and rotate the camera module to the view angle you want

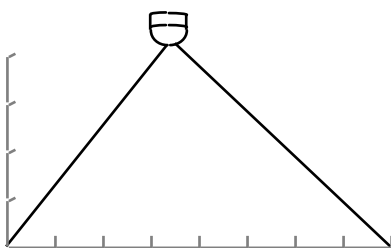


Arrow Indicator

Fixing screws

1. ED230/330 Dome camera's angle of view for lens is 83-degree.

Decide the location to install the Dome camera.



Full-Screen Width of View = 2 X

Distance between Camera and Target

2. In application, the dome camera can be installed as the following two positions:

a) Ceiling mount



- b) Wall mount

Note!! Please make sure you connect power +,- correctly. Wrong Connection damage the camera.

3. Connect Video and Power

- a. Connect the BNC connector of the camera to a color monitor, or other video device through a 75 ohm type coaxial cable with BNC female connector at cable extension.
- b. Connect the 12VDC regulated power source of the camera.

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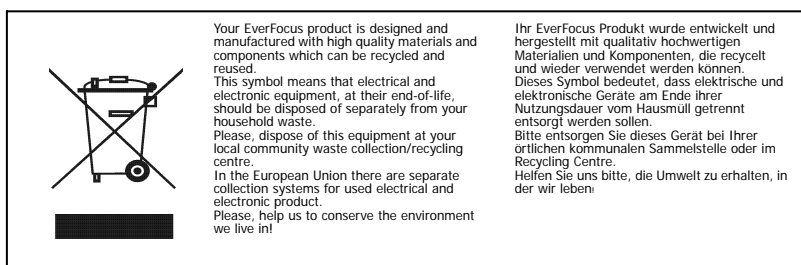
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